

Krishnan
10/038830

10/038830

FILE 'REGISTRY' ENTERED AT 14:58:57 ON 04 APR 2002
E WATER/CN

L1 1 S E3

E SODIUM HYALURONATE/CN 5

L2 1 S E3

FILE 'CAPLUS' ENTERED AT 15:01:05 ON 04 APR 2002

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON WATER/CN

L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SODIUM HYALURONATE"/CN

L3 686 SEA FILE=CAPLUS ABB=ON PLU=ON (L1 OR WATER OR H2O) AND
(L2 OR (NA OR SODIUM) (W)HYALURONATE)

L4 21 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND HUMECTANT

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:850724 CAPLUS

DOCUMENT NUMBER: 135:376535

TITLE: Composition for make-up or skin-care in a
powdery form containing a particular binder
INVENTOR(S): Hadasch, Anke; Lemann, Patricia; Simonnet,
Jean-tierry

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1155676	A2	20011121	EP 2001-401249	20010515
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2808999	A1	20011123	FR 2000-6448	20000519
JP 2002020236	A2	20020123	JP 2001-148415	20010517
CN 1331967	A	20020123	CN 2001-122173	20010518

PRIORITY APPLN. INFO.: FR 2000-6448 A 20000519

OTHER SOURCE(S): MARPAT 135:376535

AB A make-up compn. contains a powdery phase and a binding phase which
a continuous aq. phase. A binding phase contained iso-Pr myristate
1.64, castor oil 2.46, vaseline oil 12.36, liq. lanolin 1.26,
water 70.95, imidazolinyl urea 0.3, glycerin 5,
Acylglutamate HS-11 0.03, phytantriol 2.97, vaseline 2.28,
chlorphenesine 0.25, and polyoxyethylene sorbitan monopalmitate
0.5%. A cosmetic make-up contained talc 77.06, iron oxide 2.74,
Nylon powder 10, titanium oxide 1, preservative 0.2, and above
binding phase 9%.

IT 9067-32-7, Sodium hyaluronate

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(compn. for make-up or skin-care in powdery form contg.
particular binder)

L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:472455 CAPLUS

DOCUMENT NUMBER: 135:66057

10/038830

TITLE: Skin compositions containing polyoxyethylene dicarboxylic acid esters
INVENTOR(S): Ohmori, Takashi; Miyahara, Reiji; Kakoki, Hiroyuki; Namba, Tomiyuki
PATENT ASSIGNEE(S): Shiseido Company, Ltd., Japan
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001045665	A1	20010628	WO 2000-JP8982	20001219
W: KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2001240526	A2	20010904	JP 2000-17423	20000126
JP 2002053451	A2	20020219	JP 2000-238126	20000807
EP 1153602	A1	20011114	EP 2000-981822	20001219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			JP 1999-360818	A 19991220
			JP 2000-17423	A 20000126
			JP 2000-238126	A 20000807
			WO 2000-JP8982	W 20001219

AB Disclosed are skin compns. for external use which contain polyoxyethylene dicarboxylic acid esters
 $R10[(Me)CHCH2O]_x(C2H5O)_mCOR3CO(OC2H5)_n[O(Me)CHCH2]_yOR2$ ($R1, R2 = H, C1-4$ (blanched) alkyl; $m, n, x, y = 0-5$, provided m, n, x and y do not represent 0 at the same time; and $R3 =$ branched or linear $C0-10$ alkylene). Because of contg. the polyoxyethylene dicarboxylic acid esters and a **humectant**, these compns. are excellent in the texture, in particular, smoothness in using and free from stickiness and exert a prolonged-moistening effect. A cosmetic lotion contg. ethanol 10, glycerin 5, 1,3-butylene glycol 5, diethoxyethyl succinate 0.001, nicotinamide 0.3, sodium pyrrolidone carboxylate 0.5, and **water** q.s. to 100 % was formulated.

IT 9067-32-7, Sodium hyaluronate
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(skin compns. contg. polyoxyethylene dicarboxylic acid esters and moisturizers)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:817459 CAPLUS
DOCUMENT NUMBER: 133:366433
TITLE: Antimicrobial compositions for skin disease
INVENTOR(S): Noguchi, Yasuhisa; Tanaka, Yukihi
PATENT ASSIGNEE(S): Nippon Oil and Fats Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

Searcher : Shears 308-4994

10/038830

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000319171	A2	20001121	JP 2000-1986	20000107
PRIORITY APPLN. INFO.:			JP 1999-55359	A 19990303
AB The antimicrobial compns. comprise bactericidal and disinfecting agents 0.01-20, humectants 0.001-20 and sebum-like substances 0.05-20 wt.%. The compn. may also contain substances such as dexamethasone and prednisolone. An ointment contained benzalkonium chloride 0.01, sodium hyaluronate 0.001, squalene 0.1 and ointment base to 100 wt.%. The ointment base contained e.g. petrolatum 25, stearyl alc. 20, propylene glycol 12, ethoxykated hardened castor oil 4, glycerol monostearate 1, Me p-hydroxybenzoate 0.1 Pr p-hydroxybenzoate 0.1 and purified water to 100 wt.%. The prepsns. are effective in treating . atopic dermatitis and other skin diseases.				

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:513464 CAPLUS
DOCUMENT NUMBER: 133:109653
TITLE: Active oxygen-free cosmetic compositions
INVENTOR(S): Nishioka, Hajime
PATENT ASSIGNEE(S): Faith Co., Ltd., Japan; Kojima, Tsuyoshi
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000042976	A1	20000727	WO 1999-JP6851	19991206
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2000273034	A2	20001003	JP 1999-297842	19991020
EP 1174108	A1	20020123	EP 1999-973627	19991206
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			JP 1999-12115	A 19990120
			JP 1999-297842	A 19991020
			WO 1999-JP6851	W 19991206
AB Disclosed are cosmetics generating no active oxygen. These cosmetics are prepd. by combining components (bases, antioxidants, humectants , neutralizing agents, thickeners, foaming agents, preservatives, refreshing agents, buffers, pH regulating agents, coloring matters, fillers, sapong. agents, dispersants, anti-inflammatory agents, emulsifiers, fats and oils, UV light absorbers, skin-conditioners, solubilizers, surfactants,				

10/038830

astringents, moisturizers, emollients, UV light scattering agents or thickening aids) with one or more substances generating no active oxygen. A cosmetic lotion contg. conc. glycerin 8, diglycerin 4, modified alc. 5, dipotassium glycyrrhizinate 0.1, **sodium hyaluronate** 0.02, placenta ext. 0.3, Saxifragaceae ext. 0.2, chamomile ext. 0.5, garlic ext. 0.5, and **water** q.s. to 100 % was prepd.

IT 9067-32-7, **Sodium hyaluronate**

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(active oxygen-free cosmetic compns. contg.)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:470370 CAPLUS

DOCUMENT NUMBER: 133:79051

TITLE: Composition for prevention of striae gravidarum

INVENTOR(S): Takashima, Yoshie

PATENT ASSIGNEE(S): Kansai Koso K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2000191492	A2	20000711	JP 1998-366706	19981224
AB	A compn. [e.g. cream] for prevention of striae gravidarum comprise humectants , skin softening agents and cell activators at ratio of 0.001-5 : 0.01-50 : 0.001-5. A cream contained sodium hyaluronate 0.1, avocado oil 3, squalane 3, octyl dodecanol 2, natural vitamin E 1, ginseng ext. 1, Scutellaria baicalensis ext. 1, yeast ext. 1, glycerol tri-2-ethylhexanoate 12, stearic acid 3, POE sorbitan monostearate 4, cetanol 5, glycerin 5 sodium hydroxide 0.7 and purified water to 100 parts.				

IT 9067-32-7, **Sodium hyaluronate**

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(compn. for prevention of striae gravidarum)

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:374462 CAPLUS

DOCUMENT NUMBER: 133:155123

TITLE: Differential scanning calorimetry studies on the mechanism of skin-softening effect of sodium acetylhyaluronate

AUTHOR(S): Oka, T.; Ueno, N.; Yanaki, T.

CORPORATE SOURCE: New Technology Research Laboratories, Basic Research Center, Shiseido Co. Ltd., Yokohama, 223-8553, Japan

SOURCE: Polymer (2000), 41(16), 6055-6059

CODEN: POLMAG; ISSN: 0032-3861

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

10/038830

LANGUAGE: English

AB A novel **humectant**, sodium acetylhyaluronate (AcHA), was found to have an excellent skin-softening effect on the stratum corneum. To clarify the mechanism of the skin-softening effect, the hydration behavior of AcHA was investigated by DSC. The results suggested that the amt. of adsorbed **water** of AcHA in powder form was equal to that of HA. However, the DSC results showed that the bound **water** content in the stratum corneum treated with AcHA was markedly greater than that of HA-treated stratum corneum. Apparently, AcHA could enhance the intrinsic **water** holding capacity of stratum corneum. Thus, the excellent skin-softening effect of AcHA is due to the enhancement of the bound **water** content in the stratum corneum.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:425544 CAPLUS

DOCUMENT NUMBER: 131:63449

TITLE: Skin protection preparation containing activated aluminum chlorohydrate

INVENTOR(S): Birrenbach, Gerd; Gabard, Bernard

PATENT ASSIGNEE(S): Spirig A.-G. Pharmazeutische Praeparate, Switz.

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 925783	A1	19990630	EP 1998-811237	19981216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: CH 1997-2884 19971216

AB Skin preps. contg. activated Al chlorohydrate [Al₂(OH)(6-x)Cl_x]_n (0 < x < 6) and/or Al Zr chlorohydrate 0.5-30, **humectant** 0.5-20, and lipid or fatty acid ester 1.0-80 wt.%, along with conventional additives, are effective in preventing skin damage (e.g. eczema or irritation) from toxic substances. Thus, an aq. phase contg. distd. **water** 62.9, glycerin 5.0, Al chlorohydrate 5.0, and hexamidine isethionate (preservative) 0.1 was combined at 80.degree. with a lipid phase contg. paraffin oil 8.0, octyl palmitate 4.0, jojoba oil 4.0, behenyl alc. 7.5, ceteth-10 1.5, steareth-20 1.5 parts at 80.degree., the melt was homogenized, cooled to room temp., and 0.5 part phenoxyethanol (preservative) was added to provide a homogeneous oil-in-**water** cream emulsion.

IT 9067-32-7, Sodium hyaluronate

RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**humectant**; skin protection prepn. contg. activated aluminum chlorohydrate)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN

10/038830

THE RE FORMAT

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:699495 CAPLUS
DOCUMENT NUMBER: 127:350990
TITLE: Development and application of acetylhyaluronate
for cosmetics, a novel **humectant**
having an excellent skin-softening effect for
stratum corneum
AUTHOR(S): Oka, Takashi; Yanaki, Toshio
CORPORATE SOURCE: Basic Res. Lab., Shiseido Res. Cent., Yokohama,
223, Japan
SOURCE: Fragrance J. (1997), 25(10), 9-15
CODEN: FUJAD7; ISSN: 0288-9803
PUBLISHER: Fureguransu Janaru Sha
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese

AB A review with 18 refs. To endow **sodium hyaluronate** (HA) with precious functions, we synthesized sodium acetylhyaluronate (Acha), which was found to have a superb moisturizing effect and has an excellent skin-softening effect. To clarify mechanism of the effect, the hydration and adsorption of Acha for the stratum corneum were measured. The results indicated that Acha increased the **water** content in stratum corneum and could be efficiently adsorbed on the stratum corneum. Consequently, Acha reduced transepidermal **water** loss (TEWL) and sufficiently softened the stratum corneum. Upon the use of Acha in a cosmetic formula, it was also obsd. that 0.2% Acha-lotion could increase the **water** contents in stratum corneum, reduce the TEWL, and improve scaly dry skin condition.

IT 9067-32-7D, acetyl derivs.
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(skin-softening effect of acetylhyaluronate on stratum corneum and its application to cosmetics)

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:548112 CAPLUS
DOCUMENT NUMBER: 127:210182
TITLE: Development and application of acetylhyaluronate for cosmetics
AUTHOR(S): Oka, Takashi; Uemura, Masaaki; Ueno, Norio; Yanaki, Toshio; Yamaguchi, Michihiro
CORPORATE SOURCE: Shiseido Res. Cent., Kanagawa, 223, Japan
SOURCE: Sci. Conf. Asian Soc. Cosmet. Sci., 3rd (1997), 234-245. Asian Societies of Cosmetic Scientists: Taichung, Taiwan.
CODEN: 64XSAZ
DOCUMENT TYPE: Conference
LANGUAGE: English

AB To maintain healthy and fresh skin, it is necessary to moisten sufficiently stratum corneum. Due to aging, surroundings, phys. constitution, and other factors, the stratum corneum always has a tendency to lose its normal **water** content. It is effective to apply **humectants** to the skin for keeping the normal **water** content. In general, **humectants**, **sodium hyaluronate** (HA), which is made from safe

10/038830

biol. sources and is hardly subject to relative humidity of environment, has a very high moisturizing effect. To endow HA with precious functions, the authors synthesized varieties of HA derivs. and evaluated their usefulness for cosmetic products. After numerous investigations for finding HA derivs., the authors eventually discovered a novel HA deriv., sodium acetylhyaluronate (Acha), which increases moisturizing effect and has a very high skin-softening effect for stratum corneum. To clarify the mechanism of the skin-softening effect, the hygroscopicity of Acha was measured. The hygroscopicity of Acha was equal to that of HA. However, DSC also showed that the bound **water** content of stratum corneum treated with Acha was markedly greater than that of HA-treated stratum corneum. It was also found by in vivo test that Acha raised the **water** content of stratum corneum more than HA did. Apparently, Acha could enhance the intrinsic **water**-holding capacity of the stratum corneum. Thus, there was an interaction between Acha and stratum corneum and this could induce the strong skin-softening effect. To investigate this interaction, the adsorption of Acha on human skin was measured. The amt. of adsorption of Acha was markedly greater than that of HA. This was consistent with the fact that Acha is an amphiphilic polymer having an effect of lowering the surface tension. Considering these results and properties, it was suggested that Acha could be adsorbed efficiently on human skin, and this adsorption reduced the transepidermal **water** loss and resulted in the skin-softening effect. Upon the use of Acha in cosmetic formulation, it was obsd. that a lotion contg. 0.2% Acha could increase the **water** contents in stratum corneum, reduce the transepidermal **water** loss, and improve the skin condition. Although further research is necessary to demonstrate the skin-softening effect of Acha, the superior effect of Acha as a **humectant** was confirmed in this study.

IT 9067-32-7DP, Sodium hyaluronate, acetyl derivs.

RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(acetylhyaluronate for cosmetics)

IT 9067-32-7, Sodium hyaluronate

RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); USES (Uses)
(acetylhyaluronate for cosmetics)

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:399963 CAPLUS

DOCUMENT NUMBER: 127:23497

TITLE: Skin care composition comprising sunscreen, **humectant** and exfoliant

INVENTOR(S): Campbell, Sean; Edsall, Marion; Herd, John

PATENT ASSIGNEE(S): Fernsoft, UK

SOURCE: Brit. UK Pat. Appl., 24 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

Searcher : Shears 308-4994

10/038830

GB 2304573 A1 19970326 GB 1995-17711 19950831
GB 2304573 B2 19990728

AB Cosmetic skin care compn. comprising a sunscreen e.g. octylmethoxy cinnamate, emollient e.g. glyceryl stearate, **humectant** e.g. glycerin, anti-oxidant e.g. vitamins A/C/E, exfoliant e.g. .alpha.-hydroxy acids from fruit ext., bodifier e.g. cetyl alc., emulsifier e.g. sorbitan stearate, preservative e.g. Pr paraben, sequestering agent e.g. disodium EDTA, delivery agent, e.g. phytantriol and **water**. Vitamins A and C may be liposomal form. Formulations of different cosmetics are claimed.

IT 9067-32-7, **SODIUM HYALURONATE**

RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
 (skin care compn. comprising sunscreen, **humectant** and exfoliant)

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:732503 CAPLUS

DOCUMENT NUMBER: 126:36867

TITLE: **Humectant** compositions and their use in manufacturing cosmetics or topical preparations

INVENTOR(S): Ooyama, Keiichi; Fujisawa, Masaaki; Kobayashi, Rie; Fujimoto, Naoko; Tsuji, Misako

PATENT ASSIGNEE(S): Nisshin Oil Mills Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 08259433	A2	19961008	JP 1995-88666	19950323
JP 3159622	B2	20010423		
WO 9813436	A1	19980402	WO 1996-JP2739	19960924
W: US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: JP 1995-88666 A 19950323

AB **Humectant** compns. contg. **water**-sol. polyvalent alcs. (glycerol and/or sorbitol), lecithin, 3-methyl-1,3-butylene glycol and **water**, and their use in manufg. cosmetics or topical preps. are claimed. A lotion contained glycerin 5, diglycerin 5, hydrogenated egg yolk lecithin 2, 3-methyl-1,3-butylene glycol 10, neopentyl glycol dicaprate 1, Et p-hydroxybenzoate 0.1, **sodium hyaluronate** 0.1 and **water** to 100 wt.%.
wt.%.

IT 7732-18-5, **Water**, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

 (**humectant** compns. and their use in manufg. cosmetics or topical preps.)

L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:574021 CAPLUS

10/038830

DOCUMENT NUMBER: 122:298724
TITLE: Cosmetic makeup compositions
INVENTOR(S): Igo-Kemenes, Kataline; Boxshall, Alison Ruth;
Morris, Sian
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9509598	A1	19950413	WO 1994-US11138	19940930
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2173112	AA	19950413	CA 1994-2173112	19940930
AU 9480124	A1	19950501	AU 1994-80124	19940930
AU 691205	B2	19980514		
CN 1134661	A	19961030	CN 1994-194094	19940930
JP 09504009	T2	19970422	JP 1994-510930	19940930
US 6001373	A	19991214	US 1996-619684	19960402
PRIORITY APPLN. INFO.:			GB 1993-20349	19931002
			EP 1993-308092	19931008
			WO 1994-US11138	19940930

AB A makeup compn. in the form of a **water**-in-oil or oil-in-**water** emulsion comprises silicone oil selected from volatile silicones, nonvolatile silicones and mixts. thereof, optionally **humectant**, at least one coated or uncoated iron oxide-type pigment and a TiO₂-coated platelet-type interference pigment material having a TiO₂ layer thickness of 120-160 nm or a whole no. multiple thereof. The makeup compn. exhibits improved moisturization, together with improved skin feel and appearance and color correction benefits.

IT **9067-32-7, Sodium hyaluronate**
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(cosmetic makeup compns. contg. silicone oils and pigments and emollients)

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:541751 CAPLUS
DOCUMENT NUMBER: 121:141751
TITLE: Pharmaceutical compositions containing hyaluronic acid and urea for treatment of epithelial diseases
INVENTOR(S): Gallina, Damian J.
PATENT ASSIGNEE(S): Patent Biopharmaceutics Inc., USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

10/038830

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9415623	A1	19940721	WO 1993-US12369	19931223
W: AU, CA, FI, HU, JP, KR, NO				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5550112	A	19960827	US 1993-101826	19930804
AU 9458524	A1	19940815	AU 1994-58524	19931223
EP 676963	A1	19951018	EP 1994-904499	19931223
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 08505388	T2	19960611	JP 1993-516025	19931223
PRIORITY APPLN. INFO.:			US 1992-996938	19921230
			US 1993-101826	19930804
			US 1992-966938	19921230
			WO 1993-US12369	19931223
AB	Pharmaceutical compns. contg. a pharmaceutically acceptable carrier, urea, and hyaluronic acid or a pharmaceutically salt thereof are used for treatment of cutis, anorectal epithelium and rectal mucosa. A cream contained urea 0.10, Na hyaluronate 15, Fattibase 4.5, glycerin 1.5, lecithin 1.5, PEG-400 1.5, and water 75.90 g. The cream was successfully used for treatment of patients with contact dermatitis.			
IT	9067-32-7, Sodium hyaluronate RL: BIOL (Biological study) (pharmaceutical compns. contg. urea and, for treatment of epithelial diseases)			
L4	ANSWER 14 OF 21 CAPLUS COPYRIGHT 2002 ACS			
ACCESSION NUMBER:	1992:557674 CAPLUS			
DOCUMENT NUMBER:	117:157674			
TITLE:	Isotonic eyedrops having nonnewtonian rheological properties			
INVENTOR(S):	Dikstein, Shabtay			
PATENT ASSIGNEE(S):	Israel			
SOURCE:	U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 350,286, abandoned. CODEN: USXXAM			
DOCUMENT TYPE:	Patent			
LANGUAGE:	English			
FAMILY ACC. NUM. COUNT:	2			
PATENT INFORMATION:				

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5106615	A	19920421	US 1990-620102	19901130
IL 80298	A1	19930131	IL 1986-80298	19861014
PRIORITY APPLN. INFO.:			IL 1986-80298	19861014
			US 1987-107575	19871013
			US 1989-350286	19890511
AB	The title eyedrops contain (1) an anionic polymer having mol. wt. 500,000 - 4,000,000 at a concn. resulting in a viscosity of .ltoreq.150 cP at 1 s-1 shear rate, which decreases to .ltoreq.30 cP s-1 at 100 s-1 shear rate, and (2) a humectant moisturizing polyol of mol. wt. .ltoreq.500, having strong water -holding properties, at isotonic or slightly above or below isotonic concn. which soln. contains .ltoreq.1.5 mmol. of monovalent or bivalent salts, not including the salts of the anionic			

10/038830

polymer. An isotonic ophthalmic soln. contained glycerol 2.75,
Na hyaluronate 0.10, idoxuridine 0.1 g, and
water 100mL.

IT 9067-32-7, **Sodium hyaluronate**
RL: BIOL (Biological study)
(isotonic ophthalmic solns. contg. polyols and)

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:214190 CAPLUS
DOCUMENT NUMBER: 114:214190
TITLE: Solid highly soluble cosmetic composition
INVENTOR(S): Funatsu, Shinichiro
PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 412449	A2	19910213	EP 1990-114944	19900803
EP 412449	A3	19921125		
EP 412449	B1	19960110		
R: DE, ES, FR, GB, IT, NL				
JP 03068507	A2	19910325	JP 1989-204488	19890807
JP 2865320	B2	19990308		
CA 2022478	AA	19910208	CA 1990-2022478	19900801
ES 2081324	T3	19960301	ES 1990-114944	19900803
AU 9060175	A1	19910207	AU 1990-60175	19900806
AU 631233	B2	19921119		

PRIORITY APPLN. INFO.: JP 1989-204488 19890807

AB A solid cosmetic comprises a freeze-dried product of an aq. soln.
contg. a **water**-sol. solid substance and a **water**
-sol. polymer as a thickener or a **humectant**. Thus,
mannitol 2.0, PEG-4000 6.0, sucrose 2.0, pectin 0.2, algae colloid
0.2, **Na hyaluronate** 0.5, Na PCA 0.5,
atelocollagen (2% aq. soln.) 1.0, placenta ext. 0.5, and deionized
water 87.1 % were mixed and freeze-dried to give a cosmetic
powder.

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:11793 CAPLUS
DOCUMENT NUMBER: 112:11793
TITLE: Skin preparations containing ceramides,
glucosylceramides, and/or galactosylceramides
and low molecular-weight acidic
mucopolysaccharides for prevention of aging
INVENTOR(S): Miyamoto, Tatsu; Uchida, Ryoichi
PATENT ASSIGNEE(S): Kanebo, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

10/038830

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01022809	A2	19890125	JP 1987-176904	19870715
JP 06104620	B4	19941221		

AB Skin preps. contain ceramides, glucosylceramides, and/or galactosylceramides and low mol.-wt. acidic mucopolysaccharides and/or their salts. The skin preps. show rough skin-treatment, corneum-treatment, and moisturizing effects and prevent aging of skin. The skin preps. require no addn. of large amt. of other **humectant** agents, e.g. glycerin, propylene glycol, etc., which absorb **water** in corneum, and softeners, e.g. liq. paraffin, vaseline, etc., which inhibit normal metab. in skin. A two-layer skin lotion contg. olive oil 15.0, iso-Pr myristate 5.0, polyoxyethylene nonylphenyl ether 0.5, propylene glycol 3.0, glycerin 5.0, methylparaben 0.1, EtOH 7.0, ceramides 0.4, hyaluronic acid (I) 0.5 wt.%, and purified **water** balance, was applied to legs of 20 middle-aged subjects suffering from rough skin, dry skin, or senile dry skin; a decrease of perspiration (TWL value) as an index of moisturizing effect was obsd. in 15 subjects, vs. 8 for a control treated with a lotion free of I.

IT **9067-32-7, Sodium hyaluronate**
 RL: BIOL (Biological study)
 (cosmetics contg. (glucosyl or galactosyl)ceramides and, for aging prevention)

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:540222 CAPLUS

DOCUMENT NUMBER: 111:140222

TITLE: Skin cosmetics containing oil-in-**water** dispersions containing natural surfactants and liposome-**water** dispersions

INVENTOR(S): Takenouchi, Masanori; Hirai, Yoshikazu

PATENT ASSIGNEE(S): Pola Chemical Industries, Inc., Japan

SOURCE: Fr. Demande, 22 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2614787	A1	19881110	FR 1988-6182	19880506
FR 2614787	B1	19940603		
JP 63275506	A2	19881114	JP 1987-109832	19870507
JP 2554880	B2	19961120		

- - - - - PRIORITY APPLN. INFO.: JP 1987-109832 19870507

AB Skin cosmetics comprise an oil-in-**water** dispersion contg. natural substances having surfactant and **humectant** properties and a liposome-**water** dispersion contg. an intercellular lipid; the ingredients are mixed in such a manner that the two dispersions coexist in the mixt. The surfactants are selected from collagen or casein or their hydrolyzates, fibroin or glycyrrhizin or their derivs.; the **humectants** are selected from hyaluronic acid, chondroitin sulfate, dermatan sulfate, or their salts, chitin, chitosan, or their derivs., collagen or its hydrolyzates, gelatin, glycerol, polyglycerol, and carboxyvinyl polymers; the intercellular lipids are selected from phospholipids,

10/038830

glycolipids, and cholesterol or its derivs. The cosmetics can contain synthetic surfactants in addn. to the natural surfactants thus named. An emollient cream contained spermaceti 3.0, beeswax 2.0, liq. paraffin 15.0, behenyl alc. 5.0, preservatives 0.3, elastin hydrolyzate 2.0, 1,3-butylene glycol 10.0, carboxymethylchitin 0.5, H₂O 53.2, soy lecithin 2.0, sphingoglycolipids 1.0, phytosterol 0.5, glycerol 5.0, and vitamin A 0.5 parts by wt. The cream was prepd. by mixing an oily phase contg. spermaceti, bees wax, liq. paraffin, behenyl alc., and preservatives with an aq. phase contg. elastin hydrolyzate, 1,3-butylene glycol, carboxymethylchitin, and H₂O to form a **water**-in-oil dispersion to which an aq. liposome dispersion was added; the liposomes consisted of soy lecithin, sphingoglycolipids, phytosterol, glycerol, and vitamin A. The moisturizing effect of this cosmetic is prolonged by 10 h, compared the a similar cosmetic contg. addnl. 2.0% by wt. glycerol monostearate and 3.0% by wt. ethoxylated cetyl alc. (i.e. synthetic surfactant) instead of elastin hydrolyzates.

IT 9067-32-7, Sodium hyaluronate

RL: BIOL (Biological study)

(oil-in-**water** dispersions contg., cosmetics from aq. liposome dispersions and)

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:179564 CAPLUS

DOCUMENT NUMBER: 110:179564

TITLE: Preparation of aminopolysaccharide derivatives, especially chitosonium salts, by acid decrystallization, and their medical, cosmetic, and liquid separation uses

INVENTOR(S): Partain, Emmett Malone, III; Brode, George Lewis, II

PATENT ASSIGNEE(S): Union Carbide Corp., USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8707618	A1	19871217	WO 1987-US1246	19870602
W: JP, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
EP 271551	A1	19880622	EP 1987-904163	19870602
EP 271551	B1	19961030		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 63503466	T2	19881215	JP 1987-503854	19870602
JP 07076241	B4	19950816		
AT 144781	E	19961115	AT 1987-904163	19870602
CA 1283655	A1	19910430	CA 1987-539050	19870608
US 4929722	A	19900529	US 1988-189312	19880203
PRIORITY APPLN. INFO.:				US 1986-871381 19860606
				WO 1987-US1246 19870602

AB The heterogeneous acid decrystn. of aminopolysaccharides, esp. chitosan, using diluent, org. acid, and H₂O, provides novel salts and covalent derivs. while avoiding processing

10/038830

difficulties encountered with aq. processing. The products are useful in fluid sepn., personal care products, and biomedical applications. Chitosan (80% deacetylated) was ground and slurried in H₂O-Me₂CO, and itaconic acid was added as a powder and the slurry was stirred for 3 h. The slurry was allowed to settle, supernatant was decanted, Me₂CO was added, and the polymer was collected by filtration; the mass gain of chitosonium itaconate was 0.30. Chitosonium itaconate was dissolved in hot H₂O, the soln. cooled, sulfanilamide was added, and a film was cast and cured at 100.degree. for 18 h. Although the film was insol. in water, >95% of the sulfanilamide was extd. from the film in H₂O after 30 min.

IT 9067-32-7, Sodium hyaluronate

RL: BIOL (Biological study)

(blend with chitosan pyrrolidonecarboxylate, for wound dressings)

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:121403 CAPLUS

DOCUMENT NUMBER: 110:121403

TITLE: Isotonic humectant eye drops

INVENTOR(S): Dikstein, Shabtay

PATENT ASSIGNEE(S): Resdevco Research and Development Co., Ltd., Israel

SOURCE: Brit. UK Pat. Appl., 3 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2196255	A1	19880427	GB 1987-24112	19871014
GB 2196255	B2	19910515		
IL 80298	A1	19930131	IL 1986-80298	19861014
SE 8703972	A	19880415	SE 1987-3972	19871013
SE 503469	C2	19960624		
CA 1311418	A1	19921215	CA 1987-549162	19871013
FR 2604906	A1	19880415	FR 1987-14176	19871014
FR 2604906	B1	19920207		
DE 3734835	A1	19880601	DE 1987-3734835	19871014
DE 3734835	C2	19970717		

PRIORITY APPLN. INFO.: IL 1986-80298 19861014

AB Isotonic eye drops contain an org. **humectant** and the required adjuvants. These solns. contain <1.5 mmol/L salts. An isotonic ophthalmic soln. contained 2.75 g glycerol, 0.05 g **Na hyaluronate**, and 100 mL H₂O. Dexamethasone di-Na phosphate (0.05 g) was added to this base to give an antiinflammatory pharmaceutical which did not irritate the eyes.

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:546968 CAPLUS

DOCUMENT NUMBER: 103:146968

TITLE: Humectants and their effects on the moisturization of skin

AUTHOR(S): Ozawa, Tatsuya; Nisiyama, Shoji; Horii, Izumi; Kawasaki, Kiyoshi; Kumano, Yoshimaru; Nakayama,

10/038830

CORPORATE SOURCE: Yasuhisa
SOURCE: Shiseido Lab., Yokohama, Japan
Hifu (1985), 27(2), 276-88
CODEN: HIFUAG

DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB In vivo expts. with guinea pig corneum and human skin and in vitro tests indicated that an appropriate combination of H₂O, **humectants** and oily substances was important for a max. skin moisturizing effect. The combination showed synergistic effects. Furthermore, appropriate combination of higher mol.-wt. **humectants** (hyaluronic acid [9004-61-9] and other mucopolysaccharides) and lower mo.-wt. **humectants** glycerol [56-81-5] and other polyols or (pyrrolidonecarboxylic acid [98-79-3]) also showed synergistic effects. An appropriate formulation protects the skin via physicochem. effects as well as biochem. effects (e.g, promotion of amino acid metab.).

IT 9067-32-7
RL: BIOL (Biological study)
(skin moisturizers contg.)

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:73782 CAPLUS
DOCUMENT NUMBER: 100:73782

TITLE: Application of **water**-holding polymers
as a skin moisturizer

AUTHOR(S): Hoshizaki, Sadao; Nakabata, Hidetoshi
CORPORATE SOURCE: Pola Lab., Yokohama, Japan
SOURCE: J. SCCJ (1983), 17(1), 19-26
CODEN: JOSCDQ

DOCUMENT TYPE: Journal
LANGUAGE: English

AB **Water**-sol. polymers forming hydrogel films contg. **water** provide natural protective characteristics not found in commonly used low-mol. wt. **humectants**. Film strength and elasticity tests on the polymers resulted in Na **hyaluronate** (I) [9067-32-7] giving the highest values under all test conditions. In vivo tests and surface slip resistance measurements indicated that I reduced skin friction resistance and thus increased skin smoothness. Transepidermal **water** loss, and skin/polymer affinity measurements revealed that some **water** sol. polymers formed, not a completely occlusive, but a **water**-permeable, dermal respirable film on skin surfaces. In vitro and in vivo test results suggested that ideal **water** sol. polymers which would be useful as skin moisturizer should meet the following conditions; (A) must have a high mol. wt. rather than a low mol. wt.; (B) should have a component of a N compd. for better skin affinity; I having a mol. wt. in 6 .times. 105 9 .times. 105 range fulfilled all of these conditions. The optimum combination of these properties enhances the skin's natural protective mechanism and is chiefly responsible for its outstanding performance as a skin moisturizer. Also lotions contg. I had a pleasant skin feel and the feel was perceptible at a low level of incorporation by the consumers.

IT 9067-32-7
RL: BIOL (Biological study)
(skin moisturizer)

10/038830

(FILE MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH,
FICST-EPLUS, JAPIO' ENTERED AT 15:07:49 ON 04 APR 2002)

L5 24 S L4
L6 22 DUP REM L5 (2 DUPLICATES REMOVED)

L6 ANSWER 1 OF 22 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
ACCESSION NUMBER: 2000-318801 [28] WPIDS
DOC. NO. CPI: C2000-096847
TITLE: Sterilizing liquid containing transparent
sodium hyaluronate for hand
washing - is prepared by dissolving **water**
insoluble non-ionic antibacterial agent in
surfactant solution, then addition of wetting
humectant.
DERWENT CLASS: D22 E14
INVENTOR(S): HUANG, X; LING, P; YUE, W
PATENT ASSIGNEE(S): (LING-I) LING P
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
CN 1245213	A	20000223	(200028)*		1

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
CN 1245213	A	CN 1998-110400	19980814

PRIORITY APPLN. INFO: CN 1998-110400 19980814

AN 2000-318801 [28] WPIDS

AB CN 1245213 A UPAB: 20000617

A sterilizing liquid containing **sodium hyaluronate**
for washing hands, is prepared by dissolving a **water**
-insoluble nonionic antibacterial agent (for example,
2,4,4'-trichloro-2'-hydroxydiphenyl ether) in aqueous solution
containing surfactant, and adding **sodium**
hyaluronate as natural wetting **humectant** to it.

USE - Hand washing in hospitals, pharmaceutical industry and
similar fields.

ADVANTAGE - Broad antibacterial application spectrum, high
antibacterial effect, no damage to skin, and beautifying skin by
making it smooth and flexible.

L6 ANSWER 2 OF 22 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.-

ACCESSION NUMBER: 2000384444 EMBASE

TITLE: Therapeutic moisturizers.

AUTHOR: Draelos Z.D.

CORPORATE SOURCE: Dr. Z.D. Draelos, 2444 North Main Street, High Point,
NC 27262, United States. zdraelos@northstate.net

SOURCE: Dermatologic Clinics, (2000) 18/4 (597-607).

Refs: 48

ISSN: 0733-8635 CODEN: DRMC DJ

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 013 Dermatology and Venereology

Searcher : Shears 308-4994

10/038830

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Moisturizers have been adapted to perform many important roles on the skin surface. Simple moisturizers combine occlusives and **humectants** to enhance the water-holding capacity of the skin. The addition of carefully selected emollients can influence the esthetic properties of the moisturizer and the stability of the active ingredients. The addition of sunscreens to moisturizers has created a new product category with an added skin function. Further diversity in moisturizer formulation is created through the addition of specialty ingredients, designed to enhance the functioning of the skin. Moisturizers are an important part of the dermatologist's armamentarium.

L6 ANSWER 3 OF 22 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1999-279531 JAPIO

TITLE: GLAND PACKING

INVENTOR: TANEMOTO MASAHIITO; WATANABE KATSUMI; KUZAWA
NAOYA

PATENT ASSIGNEE(S): NICHIAS CORP)

PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 11279531	A	19991012	Heisei	C09K003-10

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1998-100103 19980327

ORIGINAL: JP10100103 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), "Unexamined Applications, Vol. 99

AN 1999-279531 JAPIO

AB PROBLEM TO BE SOLVED: To obtain a gland packing which exhibits a low sliding resistance and good sealing properties by incorporating a **humectant** and a lubricant (e.g. paraffin) into an expandable graphite packing comprising expandable graphite or a composite thereof with reinforcing fibers (e.g. metal fibres).
SOLUTION: A sheet of expandable graphite or of a composite of expandable graphite with reinforcing fibers (e.g. metal fibers) is cut into a certain width; thus obtd. tape-like material is spirally arranged in a metal mold and then press-molded in the longitudinal direction to give a ring-shape expandable graphite gland packing; and this gland packing is immersed in a liquid contg. equal amts. of a **humectant** and a lubricant selected from among turbine oils, silicone oils, paraffin waxes, paraffin emulsions, etc., to give a gland-packing contg. the **humectant** and the lubricant attached thereto, each in an amt. of 0.1 wt.% or higher. The **humectant** absorbs the atmospheric moisture and prevents **water** at the packing surface from vaporizing, and its examples are glycerin, ethylene glycol, glycine, soluble collagen, polypeptides, and **sodium hyaluronate**.
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L6 ANSWER 4 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 980716649 JICST-EPlus

TITLE: Synthesis and Application of 2-Methacryloyloxyethyl Phosphorycholine Copolymer.

10/038830

AUTHOR: SHIMADA KUNIO; IRIE HIROFUMI; MURATA YOSHISHIGE
ISHIHARA KAZUHIKO
NAKABAYASHI NOBUO
CORPORATE SOURCE: Tsukubaken
Univ. of Tokyo, Grad. Sch.
Tokyo Medical and Dental Univ., Inst. for Medical and
Dental Engineering
SOURCE: Fragr J, (1998) vol. 26, no. 7, pp. 97-104. Journal
Code: G0987B (Fig. 13, Tbl. 3, Ref. 8)
CODEN: FUJAD7; ISSN: 0288-9803
PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal; Article
LANGUAGE: Japanese
STATUS: New

AB Moisturizing agents such as **sodium hyaluronate**,
sodium pyrrolidonecarboxylate, or **sphingolipid** have been developed
for use in cosmetic field. Although they show **humectant**
properties with various mechanism, their effect seems to be limited.
We have synthesized an amphiphilic polymer, poly(cents.2-
methacryloyloxyethyl phosphorylcholine(MPC)-co-butyl
methacrylate(BMA)! which not only shows **water**-holding
capacity under both in vitro and in vivo test but also gives us
naturally moisturized feeling on the skin. At the same time, the
poly(MPC-co-BMA) works as a surfactant with reducing static
electrification and surface tension. It protects hair or skin from
damage, rather cures them. In this article, we introduce application
of the poly(MPC-co-BMA) to the skin-care and the hair-care
cosmetics. For cosmetics field such a less irritating surfactant has
a great promise for future ingredient. (author abst.)

L6 ANSWER 5 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 971029863 JICST-EPlus
TITLE: Skin-softening Effect of Sodium Acetylhaluronate.
AUTHOR: OKA TAKASHI; MATSUZAKI FUMIAKI; YANAKI TOSHIO
CORPORATE SOURCE: Shiseido Co., Ltd.
SOURCE: Nippon Kagakkai Koen Yokoshu, (1997) vol. 73rd, pp.
331. Journal Code: S0493A
ISSN: 0285-7626
PUB. COUNTRY: Japan
LANGUAGE: Japanese
STATUS: New

AB To endow **sodium hyaluronate**(HA) with precious
functions, we synthesized sodium acetylhyaluronate(AcHA), which has
an excellent skin-softening effect for stratum corneum. To clarify
the mechanism of the effect, differential scanning calorimetry(DSC)
unveiled that the maximum bound **water** content, which is
observed before appearance of free **water**, of AcHA wasequal
to that of HA. However, DSC also showed that the bound **water**
content of stratum corneum treated with AcHA was markedly greater
than that of HA-treated stratum corneum. To investigate this
interaction, the adsorption of AcHA on human skin was measured. The
results showed that the amount of adsorption of AcHA was markedly
greater than that of HA. Considering these results and properties,
it was suggested that AcHA could be adsorbed efficiently on human
skin, and this adsorption reduced the transepidermal **water**
loss and resulted in the skin-softening effect. Upon the use of AcHA
in cosmetic formula, it was observed that a lotion containing 0.2%
AcHA could increase the **water** contents in stratum corneum,

10/038830

reduce the transepidermal water loss (TEWL), and improve the skin condition. Although further research is necessary to demonstrate the skin-softening effect of ACHA, its superior effect as a **humectant** was confirmed in this study. (author abst.)

L6 ANSWER 6 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 970431514 JICST-EPlus

TITLE: Skin Care in Atopic Dermatitis. Characterizing dry skin in atopic dermatitis and utility of skin care.

AUTHOR: TAKAHASHI MOTOJI

CORPORATE SOURCE: Shiseido Co., LTD

SOURCE: Nippon Koshohin Kagakkaishi (Journal of Japanese Cosmetic Science Society), (1997) vol. 21, no. 1, pp. 50-55. Journal Code: Y0265A (Fig. 6, Tbl. 2, Ref. 14) ISSN: 0287-1238

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Commentary

LANGUAGE: Japanese

STATUS: New

AB The dry skin in atopic dermatitis (AD) was characterized using non-invasive methods. Patients with atopic xerosis showed markedly higher transepidermal water loss (TEWL) and markedly lower skin surface hydration levels than did the controls. The stratum corneum of AD patients contained lower amount of free amino acids and ceramides than did those of controls. Skin surface pH in AD patients was higher than that of controls. Parakeratotic cells were observed in tape stripped stratum corneum of AD patients. A clinical study of cream which is compounded of squalane and jojoba oil as the main bases, a derivative of glycyrrhetic acid and allantoin as the active ingredients, and **sodium hyaluronate** and glycerin as the **humectant** was conducted for patients with mild to moderate AD to evaluate its utility. The rate of improvement by symptom was especially high, 78.4 and 75.0%, for dry skin and scale, respectively, and the rates for an itching sensation and scratch marks were also relatively high, 56.1 and 53.1%, respectively. The physiological condition of AD skin was improved by 4 weeks treatment by the cream. Moisture content of stratum corneum significantly increased and the heterogeneity of skin surface ridges significantly decreased. TEWL tended to be lower after use than before use. The effect of 4 weeks treatment by bathing emulsion containing oil, **humectants**, dipotassium glycyrrhetinate, and rice germ oil on AD dry skin was examined. The rate of improvement by symptom was high, 74.2% for dry skin and scale, and the rates for an itching sensation was 54.8%. By the measurement of skin surface conductance it was appeared that the use of bathing emulsion tends to help retain more moisture than non-use. In conclusion, skin care treatment (use of cream or bathing emulsion) is useful for improvement of clinical symptoms and for self-medication in AD patients. (author abst.)

L6 ANSWER 7 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 971032777 JICST-EPlus

TITLE: New raw materials and technologies for cosmetics. Development and application of Acetylhyaluronate for cosmetics, a novel **humectant** having an excellent skin-softening effect for stratum corneum.

AUTHOR: OKA TAKASHI; YANAKI TOSHIO

CORPORATE SOURCE: Shiseido Co., LTD

10/038830

SOURCE: Fragr J, (1997) vol. 25, no. 10, pp. 9-15. Journal
 Code: G0987B (Fig. 16, Ref. 18)
 CODEN: FUJAD7; ISSN: 0288-9803
PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal; Commentary
LANGUAGE: Japanese
STATUS: New

AB To endow **sodium hyaluronate**(HA) with precious functions, we synthesized sodium acetylhyaluronate(AcHA), which was found to have a superb moisturizing effect and has an excellent skin-softening effect. To clarify mechanism of the effect, the hydration and adsorption of AcHA for the stratum corneum were measured. The results indicated that AcHA increased the **water** content in stratum corneum and could be efficiently adsorbed on the stratum corneum. Consequently, AcHA reduced transepidermal **water** loss(TEWL) and sufficiently softened the stratum corneum. Upon the use of AcHA in a cosmetic formula, it was also observed that 0.2% AcHA-lotion could increase the **water** contents in stratum corneum, reduce the TEWL, and improve scaly dry skin condition. (author abst.)

L6 ANSWER 8 OF 22 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1996-291057 JAPIO
TITLE: CATAPLASM
INVENTOR: MIYAJIMA YOSHIHARU
PATENT ASSIGNEE(S): YUUTOKU YAKUHHIN KOGYO KK, JP (CO 463909)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08291057	A	19961105	Heisei	(6) A61K009-70

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1996-44028 19960207
ORIGINAL: JP08044028 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 96, No. 11

AN 1996-291057 JAPIO

AB PURPOSE: To obtain a cataplasm capable of exhibiting extremely excellent skin-protecting effect without using a pharmaco dynamic component such as an antiinflammatory analgesic agent which is conventionally compounded and effective for curing xeroderma, etc., by compounding a base material having a high content of **water** with a specific **humectant** component.
CONSTITUTION: (A) A cataplasm base material (preferably, consisting of 10-20wt.% of a base material, 10-25wt.% of a polyvalent alcohol, 2-13wt.% of a **water**-soluble high molecular compound and 30-80wt.% of **water**, and having a pH of 4.2-6.4) is compounded with (B) at least one kind of **humectant** selected from (i) **sodium hyaluronate**, (ii) sodium chondroitinsulfate, (iii) a lactic acid salt, (iv) pyrrolidonecarboxylic acid, (v) urea, (vi) an aloe extract and (vii) an extract of leaves of a beefsteak plant. Further, 0.1-1wt.% of the component (ii), 0.01-0.1wt.% of the component (i) or 1-5wt.% of the component (v) is preferably used as the component B, each based on the component A. Especially, it is preferable to use the combination of the components (ii), (i) and (v) as the component B.

10/038830

L6 ANSWER 9 OF 22 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-012571 JAPIO
TITLE: DISINFECTING LIQUID FOR EXTERNAL USE
INVENTOR: MIYANO SHIGERU; OKUMA TAKAAKI; HINO YASUHIKO;
YAMAZAKI EMIKO; KOMURO CHIKARA
PATENT ASSIGNEE(S): NIPPON KAYAKU CO LTD, JP (CO 000408)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08012571	A	19960116	Heisei	(6) A61K031-14

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1995-53744 19950220
ORIGINAL: JP07053744 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 1

AN 1996-012571 JAPIO

AB PURPOSE: To obtain a disinfecting liquid for external use containing an alkylbenzyldimethylammonium and a **water**-soluble negatively charged polymer as essential ingredients, excellent in **humectant** properties for preventing hands from roughening.
CONSTITUTION: This disinfecting liquid for external use comprises (A) an alkylbenzyldimethylammonium or its salt (preferably, benzalkonium chloride or benzethonium chloride) and (B) a **water**-soluble negatively charge polymer and/or its salt (preferably, hyaluronic acid or its salt) as essential ingredients, and (C) 30-65wt./vol.% an aqueous solution of ethanol as a preferable solvent. The concentrations of the ingredients are preferably 0.05-0.5 (wt./vol.)% ingredient (A), 0.001-0.3 (wt./vol.)% ingredient (B) and 30-60 (wt./vol.)% ingredient (C). The disinfecting liquid for external use comprises, e.g. 40-60 (wt./vol.)% aqueous solution of ethanol containing 0.1-0.3 (wt./vol.)% benzalkonium chloride or benzethonium chloride, 0.002-0.05 (wt./vol.)% **sodium hyaluronate** or **sodium hyaluronate** and succinylated carboxymethylchitosan.

L6 ANSWER 10 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 961012948 JICST-EPlus
TITLE: Moisturizing and Skin-softening Effect on Sodium Acetylhyaluronate.
AUTHOR: OKA TAKASHI; YANAKI TOSHIO; YAMAGUCHI MICHIIHIRO
CORPORATE SOURCE: Shiseido Co., Ltd.
SOURCE: Nippon Kagakkai Koen Yokoshu, (1996) vol. 71st, pp. 80. Journal Code: S0493A
ISSN: 0285-7626
PUB. COUNTRY: Japan
LANGUAGE: Japanese
STATUS: New

AB To maintain healthy and fresh skin, it is necessary to moisten sufficiently the stratum corneum. Due to aging, surroundings, physical constitution, and other factors, the stratum corneum always has a tendency to lose its normal **water** content. It is effective to apply the **humectant** to the skin for keeping the normal **water** content. In general **humectants**,

sodium hyaluronate(HA) has a very highly moisturizing effect. To endow HA with precious functions, we synthesized varieties of HA derivatives and evaluated their usefulness for cosmetic products. After numerous investigations for finding HA derivatives, we eventually discovered a novel HA derivative, **sodium acetylhyaluronate**(AcHA), which has a very highly skin-softening effect for the stratum corneum. Moreover, many physicochemical studies on AcHA showed that the hygroscopic property of AcHA is equal to that of HA. We also observed that AcHA has an effect of lowering the surface tension, an effect of holding **water** to the skin, an effect of improving the rough and dry skin, a very highly ethanol-solubility, and other functions. (author abst.)

L6 ANSWER 11 OF 22 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
DUPLICATE 1

ACCESSION NUMBER: 1996:273748 BIOSIS

DOCUMENT NUMBER: PREV199698829877

TITLE: Clinical study of ADS cream (medicated Atskin Cream) in atopic dermatitis.

AUTHOR(S): Ikezawa, Zenroh (1); Kitamura, Kazuko; Komatsu, Taira; Sugiyama, Asami; Ohsawa, Junko

CORPORATE SOURCE: (1) Dep. Dermatol., Yokohama City Univ. Urafune Hosp. 3-46, Urafune-cho, Minami-ku, Yokohama-City 232 Japan

SOURCE: Skin Research, (1996) Vol. 38, No. 1, pp. 74-96.
ISSN: 0018-1390.

DOCUMENT TYPE: Article

LANGUAGE: Japanese

SUMMARY LANGUAGE: Japanese; English

AB A clinical study of ADS cream (medicated Atskin cream) which is compounded of squalane and jojoba oil as the main bases; a derivative of glycyrrhetic acid and allantoin as the active ingredients, and **sodium hyaluronate** as the **humectant** was conducted in 99 patients with mild to moderate atopic dermatitis (AD) to evaluate utility. The rate of improvement which was determined from general improvement rating was 35.4% (including evaluations classified as "moderately and remarkably improved") and 78.8% (including evaluations classified as "slightly, moderately, and remarkably improved"). The rate of improvement by symptom was especially high, 78.4% and 75.0%, for dry skin and scale, respectively, and the rates for an itching sensation and scratch marks were also relatively high, 56.1% and 53.1% respectively. Adverse reactions to this cream were reported in 3 patients (3.0%), the symptoms consisting of a tingling sensation in 1 patient, itching, erythema, and papule in 1 patient, and papule in 1 patient. The rate of utility which was determined in consideration of the general improvement rating and adverse reactions was high, 42.4% (including evaluations classified as "moderately and very useful") and 75.8% (including evaluations classified as "slightly, moderately, and very useful"). To evaluate the effect of ADS cream on the physiological condition of skin in a non-invasive way, the moisture content of the stratum corneum (corneous conductance), transepidermal **water** loss (TWL), and skin surface morphology (VC1: a parameter showing the radial heterogeneity of a skin fissure) were determined. Apart from the above-mentioned study, 23 patients with mild to moderate AD were given ADS cream for about 4 weeks to evaluate the dermato-physiological parameters and its clinical effect. The rate of improvement which was determined from

10/038830

the general improvement rating was 43.5% (including evaluations classified as "moderately and remarkably improved") and 73.9% (including evaluations classified as "slightly, moderately, and remarkably improved"). The rate of improvement by symptom was more than 70.0% for dry skin, scale, and scratch marks, more than 60% for erythema and pauple, and more than 50% for an itching sensation. These findings roughly coincide with those obtained in the previous study (in 99 subjects). The results of dermato-physiological parameter measurement indicate an improvement in the physiological condition of the stratum corneum, as shown by a significant increase in the moisture content of the stratum corneum (p lt 0.05) and a significant decrease in fissural heterogeneity (p lt 0.05). In addition, the mean value of TWL tended to be slightly lower after use than before use, though there was no significant difference, i.e., improvement in skin surface barrier function was suggested. In conclusion, the results presented suggest that ADS cream may be useful as skin care cream intended for self-medication in AD patients because clinical symptoms, the moisture content of the stratum corneum, and skin surface morphology were improved in such patients by the use of it.

L6 ANSWER 12 OF 22 JICST-EPlus COPYRIGHT 2002 JST

ACCESSION NUMBER: 950262990 JICST-EPlus

TITLE: Special issue : Dyeing without pollution.Hyaluronic acid, which is spotlighted.

SOURCE: Kako Gijutsu, (1995) vol. 30, no. 3, pp. 163-165.
Journal Code: G0791B (Fig. 7, Tbl. 1)
ISSN: 0386-6041

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Commentary

LANGUAGE: Japanese

STATUS: New

AB Composition, features, and physical properties of hyaluronic acid FCH of KIBUN FOOD CHEMIFA Co., Ltd. is introduced. It is polymeric **sodium hyaluronate** obtained by fermentation using streptococcus *Streptococcus zooepidemicus*. Hyaluronic acid is a cosmetic **humectant** with high moist retention in low humidity atmosphere, and causes no skin impediment. The application to fiber is being examined.

L6 ANSWER 13 OF 22 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1994-068304 [09] WPIDS

DOC. NO. CPI: C1994-030476

TITLE: Hyaluronidase inhibitors for addn. to cosmetics and quasi drugs - contain solvent extract of e.g. fruit, buds, bark roots or stems of plants.

DERWENT CLASS: B04 D21

PATENT ASSIGNEE(S): (MIKI-N) MIKIMOTO SEIYAKU KK

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 06009371	A	19940118	(199409)*		8

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
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Searcher : Shears 308-4994

10/038830

JP 06009371 A

JP 1992-187453 19920623

PRIORITY APPLN. INFO: JP 1992-187453 19920623

AN 1994-068304 [09] WPIDS

AB JP 06009371 A UPAB: 19940418

Hyaluronidase inhibitors comprise one or more of solvent extracts selected from the fruit of Terminalia chebula Retz, the rhizome of Dryopteris Crassirhizoma Nakai, bark or peel of Punica granatum L., bud of Eugenia caryophyllata (or Syzygium aromaticum), fruit of Areca catechu L., bark of Fraxinus japonica (F. lanuginosa, or F. rhynchophylla), root of Berchemia lineata D.C., bark of Wikstroemia indica C.A. Mey and stem of Ephedra sinica Stapf.

Specifically solvents employed are **water**, ethanol, or their mixts. with polyvalent alcohols. Oils, **humectants**, and other ingredients may be added and a variety of cosmetic formulations can be possible, e.g. lotion, cream, emulsion and pack.

USE/ADVANTAGE - The solvent extract, when added at about 0.01% inhibit the decompns. of hyaluronic acid and, therefore, are useful as additives of no toxicity to cosmetics and quasi drugs. Hyaluronic acid can hold **water** in the gap of cells and form jelly-like matrix in the tissue, thus maintaining lubricity and elasticity of the skin, blocking the influence from outside and infections of bacteria, and preventing wrinkles and roughness of the skin.

In an example, dried T. chebula (10 g) was stood in 300 ml ethanol with occasional stirring, filtered, and lyophilised to prepare an ethanol ext.. A mixt. of 0.5% olive oil, 0.5% the ethanol ext., 2.0% polyoxyethylene (20E.O.) sorbitan monostearate, 2.0% polyoxyethylene (60E.O.) hardened castor oil, 10.0% ethanol, 5.0% **Na hyaluronate** 1.0% aq. soln., and 80.0% pure **water** was made into a lotion.
Dwg.0/0

L6 ANSWER 14 OF 22 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1994-272996 [34] WPIDS

DOC. NO. CPI: C1994-124852

TITLE: Novel D-galacturonic acid L-rhamnose +D-glucose contg. polysaccharide(s) - useful as **humectants**, emulsifiers, dispersion, stabilisers, foam stabilisers, and cement additives etc.

DERWENT CLASS: A11 D13 D16 D17 D21 L02

INVENTOR(S): MISAKI, A; NAKAGAWA, M; NAKANISHI, O; OKUMIYA, T; OOISO, Y; SUGIHARA, R

PATENT ASSIGNEE(S): (TKAK) TAYCA CORP

COUNTRY COUNT: 6

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
EP 613951	A2	19940907	(199434)*	EN	17
R: DK FR GB SE					
JP 07090003	A	19950404	(199522)		11
EP 613951	A3	19950628	(199611)		
US 5508190	A	19960416	(199621)		11
US 5527904	A	19960618	(199630)		11

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 613951	A2	EP 1994-102795	19940224
JP 07090003	A	JP 1993-308620	19931115
EP 613951	A3	EP 1994-102795	19940224
US 5508190	A Div ex	US 1994-201698	19940225
		US 1995-404642	19950315
US 5527904	A	US 1994-201698	19940225

PRIORITY APPLN. INFO: JP 1993-64681 19930301; JP 1993-207046
19930729; JP 1993-308620 19931115

AN 1994-272996 [34] WPIDS

AB EP 613951 A UPAB: 19941013

Novel polysaccharides (I) have the following physicochemical props.;
(a) mol.wt. 5x10³ to 10x10⁶; (b) constituent glycoses
alpha-D-galacturonic acid, beta-L-rhamnose, and alpha-D-glucose; and
(c) constituent glycoses joined substantially by 1,3-linkages.

USE - (I) Have excellent H₂O-retaining ability which
is almost completely unaffected by the ambient relative humidity
(unlike e.g. Na hyaluronate). (I) also have:
film-forming properties, when they form a colourless, transparent
and tough film useful for packaging and coating (in partic. a film
from deacetylated (I) has excellent tensile strength and elongation
at break); and dispersion-stabilising properties, useful as
low-viscosity replacements for gum arabic. (I) are also useful as
emulsifiers, humectants, and foam stabilisers, and in
cement mixts., etc..

Dwg.0/2

ABEQ US 5508190 A UPAB: 19960529

An isolated Azotobacter Beijerinckii TNM1 (FERM BP-4194) or a mutant
thereof which is capable of producing polysaccharides having the
following physicochemical properties:

(1) a molecular weight determined by gel filtration
chromatography is about 5multiplied by10³ to 10multiplied by10⁶,

(2) the constituent glycoses are D-galacturonic acid,
L-rhamnose and D-glucose,

(3) the constituent glycoses are joined substantially by
1,3-linkages, and

(4) a configuration of D-galacturonic acid is alpha, that of
L-rhamnose is beta and that of D-glucose is alpha.

ABEQ US 5527904 A UPAB: 19960731

Polysaccharides having the following physicochemical properties: (1)
a molecular weight determined by gel filtration chromatography is
about 5 x 10³ to 10 x 10⁶, (2) the constituent glycoses are
D-galacturonic acid, L-rhamnose and D-glucose, (3) the constituent
glycoses are joined by 1,3-linkages, and (4) a configuration of
D-galacturonic acid is alpha, that of L-rhamnose is beta and that of
D-glucose is alpha.

Dwg.0/2

L6 ANSWER 15 OF 22 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 95006265 EMBASE

DOCUMENT NUMBER: 1995006265

TITLE: Enhanced substantivity of hyaluronic acid on keratin

10/038830

substrates via polymer complexation.
AUTHOR: Pavlichko J.P.; Goddard E.D.; Band P.A.; Leschiner A.
CORPORATE SOURCE: Amerchol Corporation, 136 Talmadge Road, Edison NJ
08818-4051, United States
SOURCE: International Journal of Cosmetic Science, (1994)
16/6 (227-234).
ISSN: 0142-5463 CODEN: IJCMDW
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 013 Dermatology and Venereology
023 Nuclear Medicine
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English; French

AB Complexes of glycosaminoglycans and certain cationic polymers have been identified which provide utility in skin and hair care applications. The combination of biologically engineered hyaluronic acid and the cationic cellulose polymer, polyquaternium-10, results in a unique, stable, multifunctional, association complex with enhanced polymer functionality. Complexation of the anionic and cationic polysaccharide polymers renders hyaluronic acid substantive to keratin, as evidenced by zeta potential changes of the surface charge of hair via electrokinetic streaming potential measurements. Radiolabelling techniques show as much as a ten-fold increase in bound hyaluronic acid on hair after water rinsing. The resulting 'enhanced' substantivity of hyaluronic acid, as part of the complex, thus extends the time hyaluronic acid remains in contact with keratinous surfaces, prolonging its **humectant**, moisturizing and skin-smoothing effects.

L6 ANSWER 16 OF 22 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1993-392559 [49] WPIDS
DOC. NO. CPI: C1993-174610
TITLE: Lubricant for vaginal cavity - composed of polyarylamide and glycerine together with **humectant**, bactericide and antifungal agent.
DERWENT CLASS: A96 B07 C07
PATENT ASSIGNEE(S): (OKAM-N) OKAMOTO CO LTD
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 05294825	A	19931109	(199349)*		4

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 05294825	A	JP 1992-98119	19920417

PRIORITY APPLN. INFO: JP 1992-98119 19920417
AN 1993-392559 [49] WPIDS
AB JP 05294825 A UPAB: 19940126
Lubricant is composed of a polyacrylamide and glycerine added with a

10/038830

humectant, an antibacterial and an antifungal agents.

In **water**, 0.5-5.0% of a polyacrylamide, 1.0-10% glycerine, 0.01% **humectant** (e.g. **Na hyaluronate** and **Na alginate**), 0.1-0.5% antifungal agent (e.g. imidazoles and thiabenzazoles), 0.01-0.375% alkyl p-hydroxybenzoate, and 0.01-1.00% of a surfactant were added to give the lubricant jellies having 150-2000 cps.. The jellies are filled in a container together with 50-30 v/v% of CO₂ at 5-8 kg/cm².

USE/ADVANTAGE - A lubricant for smooth coitus and vaginal cavity.

In an example, in 95.1 pts. purified **water**, 1.25 pts. polyacrylamide was dissolved in 20-30 mins. with stirring. In glycerine warmed at 65-70 deg.C, 0.025 pt. of propyl p-hydroxybenzoate and 0.075 pt. of methyl p-hydroxybenzoate were mixed portionwise in 20 mins.. In **water**, 0.05% of **Na hyaluronate**, 0.2% of a sugar ester and 0.3% of a thiabenzazole were dissolved separately. The resultant solns. were mixed gently and allowed to stand overnight to give a jelly compsn.. The compsn. was filled in a container together with CO₂ at 5.6 kg/cm².

Dwg.0/0

L6 ANSWER 17 OF 22 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1993-345711 JAPIO
TITLE: SKIN PROTECTION AGENT
INVENTOR: MASAKI HITOSHI; TAKEI MASUMI
PATENT ASSIGNEE(S): NOEVIR CO LTD, JP (CO 490382)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 05345711	A	19931227	Heisei	(5) A61K007-40

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1991-100427 19910404
ORIGINAL: JP03100427 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined
Applications, Section: C, Sect. No. 1186, Vol.
18, No. 191, P. 63 (19940404)

AN 1993-345711 JAPIO

AB PURPOSE: To provide a skin-protection agent capable of forming a tack-free **water**-insoluble film of chitosan on the skin to effectively protect the skin from chapping without lowering the operability in work.

CONSTITUTION: A **water**-insoluble chitosan film is formed on the skin by combining (A) an aqueous solution of an acid salt of chitosan or a **water**-soluble chitosan derivative selected from carboxylated compound, sulfonated compound, glycolated compound or quaternized compound of chitosan with (B) a dilute alkaline aqueous solution or an aqueous solution of a polymeric compound having charge opposite to the charge of the chitosan derivative. The agent may be incorporated with a **humectant** component such as **sodium hyaluronate**. The film gives moist feeling to the skin without causing tackiness and the lowering of the operability in work. The chitosan film can easily be removed by washing with an weakly acidic aqueous solution or an aqueous solution of an anionic substance or a cationic substance.

10/038830

L6 ANSWER 18 OF 22 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1990-215707 JAPIO
TITLE: SKIN COSMETIC
INVENTOR: SUZUKI ERIKO; HIRAKI JUN; FUJII MASAHIRO
PATENT ASSIGNEE(S): CHISSO CORP, JP (CO 000207)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 02215707	A	19900828	Heisei	(5) A61K007-00

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1989-33791 19890215
ORIGINAL: JP01033791 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined
Applications, Section: C, Sect. No. 778, Vol.
14, No. 522, P. 31 (19901115)

AN 1990-215707 JAPIO

AB PURPOSE: To obtain a skin cosmetic having good compatibility with **water**, no rough feeling in application to the skin and both **humectant** action and skin beautifying effects by using a lyophilized product of an aqueous solution containing hyaluronic acid (salt) and phosphate-L-ascorbin magnesium.
CONSTITUTION: A lyophilized product of an aqueous solution of hyaluronic acid or **sodium hyaluronate** and phosphate-L-ascorbin magnesium shown by the formula in the weight ratio of the former and the latter of 1:0.1-50 is used as a cosmetic raw material of powder side of a two-agent type cosmetic comprising toilet lotion and powder. The lyophilized product slightly causes an undissolved lump of powder compared with powder of hyaluronic acid (salt) alone, is dissolved in a shorter time than the powder and is also dissolved in a shorter time than phosphate-L-ascorbin magnesium powder or granule.

L6 ANSWER 19 OF 22 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1990-134315 JAPIO
TITLE: BATHING AGENT
INVENTOR: KITA KIYOSHI
PATENT ASSIGNEE(S): KITA KIYOSHI, JP (IN)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 02134315	A	19900523	Heisei	(5) A61K007-50

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1988-285733 19881114
ORIGINAL: JP63285733 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined
Applications, Section: C, Sect. No. 747, Vol.
14, No. 37, P. 42 (19900810)

AN 1990-134315 JAPIO

AB PURPOSE: To obtain a bathing agent, improved in **humectant** effects and capable of providing glossy skin touch and keeping beautifying function by blending hyaluronic acid with other

10/038830

ingredients.

CONSTITUTION: A bathing agent obtained by preparing an aqueous solution of, e.g., **sodium hyaluronate** having 100000-2000000 molecular weight, blended in 10g/l concentration, mixing and using 100ml resultant solution in 400l hot **water** or mixing and dissolving 1g powdery hyaluronic acid in 400l hot **water**. The **sodium hyaluronate** is obtained by extracting from a cockscomb or fermentation and production from starch using streptococci of the genus *Streptococcus*. The hyaluronic acid is mixed and used in hot **water** during bathing to cover the keratinous layer of the skin with the hyaluronic acid holding **water**. Thereby, systemic **humectant** effects are provided.

L6 ANSWER 20 OF 22 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1990-062814 JAPIO
TITLE: POWDERY COSMETIC
INVENTOR: SUZUKI ERIKO; HIRAKI JUN; FUJII MASAHIRO
PATENT ASSIGNEE(S): CHISSO CORP, JP (CO 000207)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 02062814	A	19900302	Heisei	(5) A61K007-00

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1988-212594 19880829
ORIGINAL: JP63212594 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined
Applications, Section: C, Sect. No. 721, Vol.
14, No. 242, P. 50 (19900523)

AN 1990-062814 JAPIO

AB PURPOSE: To obtain a powdery cosmetic having **humectant** effect as well as skin-beautifying effect and giving agreeable feeling to the skin by using hyaluronic acid or **sodium hyaluronate** and an L-ascorbic acid derivative as essential components.
CONSTITUTION: The objective cosmetic contains a complex of hyaluronic acid or **sodium hyaluronate** and L-ascorbyl magnesium phosphate. The amount of the L-ascorbyl magnesium phosphate is 0.1-10 pts. per 1 pt. of hyaluronic acid. A precipitant such as methanol is added to a solution of the above mixture under stirring and the precipitate is crushed, e.g., in wet state to obtain the objective fine powder having particle diameter of 0.5-40.mu.m. The cosmetic is quickly soluble in **water** or cosmetic on the palm and applicable to the skin without giving rough feeling nor entering into the pores of the skin.

L6 ANSWER 21 OF 22 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1984-110612 JAPIO
TITLE: HAIR TREATMENT
INVENTOR: SOTOOKA NORIAKI
PATENT ASSIGNEE(S): POLA CHEM IND INC, JP (CO 323902)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
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10/038830

JP 59110612 A 19840626 Showa (3) A61K007-06

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1982-219686 19821215

ORIGINAL: JP57219686 Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined
Applications, Section: C, Sect. No. 247, Vol. 8,
No. 2251, P. 92 (19841016)

AN 1984-110612 JAPIO

AB PURPOSE: To provide a treatment containing a hyaluronic acid having specific molecular weight, capable of restoring and protecting damaged hair, improving and keeping the set hair, and giving glossiness to the hair.

CONSTITUTION: Hyaluronic acid having a molecular weight of 500,000-2,000,000 and/or its salt, especially preferably **sodium hyaluronate** is added to a hair treatment in an amount of 0.005-2wt%. The treatment is preferably the one containing 2-5wt% of **humectant**, 3-30wt% of lubricant (preferably 5-20wt% of polar lubricant or 5-30wt% of non-polar lubricant), 0-5wt% of surface active agent and 95-15wt% of **water** as essential components, and having a pH of 4-10, especially 5-9.

L6 ANSWER 22 OF 22 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 2000-264814 JAPIO

TITLE: SKIN LOTION

INVENTOR: ISHIDA MISAKI; SATOU SAORI; HAYASHI SHINJI

PATENT ASSIGNEE(S): NOF CORP)

PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000264814A		20000926	Heisei	A61K007-00

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1999-071251 19990317

ORIGINAL: JP11071251 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2000

AN 2000-264814 JAPIO

AB PROBLEM TO BE SOLVED: To obtain a skin lotion having a light touch at the time of use, without causing stickiness even after the use, excellent in **humectant** effects and persistence of the **humectant** effects and improving effects on skin roughening and further-in wrinkle eliminating effects, etc., by including an extracted essence of Akebiae Caulis and acidic mucopolysaccharides in a specific proportion.

SOLUTION: This skin lotion is obtained by including 0.00005-2 wt.% of an extracted essence of Akebiae Caulis expressed in terms of a dry residue and (B) 0.001-3 wt.% of acidic mucopolysaccharides such as **sodium hyaluronate** in >=1/100 weight ratio of the ingredients A/B. The ingredient A is prepared by directly thermally refluxing a lianous stem of the Akebiae Caulis together with **water**, etc., or dipping the lianous stem in **water**, etc., or drying the lianous stem and then thermally refluxing the dried lianous stem together with **water**,

10/038830

etc., or dipping the dried lianous stem in **water**, etc. The skin lotion is excellent in stability with time and even restoring properties from preservation at low temperatures.
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FILE 'REGISTER' ENTERED AT 15:10:09 ON 04 APR 2002

Claims 4-8

E BUTYLENE GLYCOL/CN 5

L7

3 S E3

=> e peg8 dimethicone/cn 5

E1 1 PEG2 PROTEIN KINASE/CN
E2 1 PEG2 PROTEIN KINASE (XENOPUS LAEVIS CLONE XLEG265)/CN
E3 0 --> PEG8 DIMETHICONE/CN
E4 2 PEGA/CN
E5 1 PEGA 200/CN

=> e "peg 8 dimethicone"/cn 5

E1 1 PEG 7M/CN
E2 1 PEG 8 DILAURATE/CN
E3 0 --> PEG 8 DIMETHICONE/CN
E4 1 PEG 8 STEARATE/CN
E5 1 PEG 8000/CN

=> e "peg-8 dimethicone"/cn 5

E1 1 PEG-6 OLEATE/CN
E2 1 PEG-6 PALMITATE/CN
E3 0 --> PEG-8 DIMETHICONE/CN
E4 1 PEG-BP 30/CN
E5 1 PEG-DESMODUR W COPOLYMER/CN

=> e polyethylene glycol 8 dimethicone/cn 5

E1 1 POLYETHYLENE GLYCOL 4000 MONOSTEARATE/CN
E2 1 POLYETHYLENE GLYCOL 4000-VINYL ACETATE-ACRYLIC ACID CO
POLYMER/CN
E3 0 --> POLYETHYLENE GLYCOL 8 DIMETHICONE/CN
E4 1 POLYETHYLENE GLYCOL 8-HYDROXYQUINOLINE ETHER/CN
E5 1 POLYETHYLENE GLYCOL ABIETATE/CN

=> e polyethylene glycol dimethicone/cn 5

E1 1 POLYETHYLENE GLYCOL DIMETHACRYLATE-VINYLPYRROLIDONE CO
POLYMER/CN
E2 1 POLYETHYLENE GLYCOL DIMETHACRYLATE-VINYLPYRROLIDONE PO
LYMER/CN
E3 0 --> POLYETHYLENE GLYCOL DIMETHICONE/CN
E4 1 POLYETHYLENE GLYCOL DIMETHOXYMETHYLSILYLPROPYL ETHER A
CETATE/CN
E5 1 POLYETHYLENE GLYCOL DIMETHYL 2-(5-CARBOXYPENTYLAMINO)-
S-TRIAZINE-4,6-DIYL ETHER BARIUM SALT/CN

=> e "dimethicone, polyethylene glycol"/cn 5

E1 1 DIMETHICONE, MIXT. WITH DI-ME ME HYDROGEN POLYOXYALKYL
ENEPOLYSILOXANES/CN
E2 1 DIMETHICONE, MIXT. WITH PANCREATIN/CN
E3 0 --> DIMETHICONE, POLYETHYLENE GLYCOL/CN
E4 1 DIMETHICONE, POLYMER WITH 2-PROPENOIC ACID/CN
E5 1 DIMETHICONE, POLYMER WITH AZIRIDINE, GRAFT/CN

=> e "dimethicone, peg"/cn 5

10/038830

E1 1 DIMETHICONE, MIXT. WITH DI-ME ME HYDROGEN POLYOXYALKYL
ENEPOLYSILOXANES/CN
E2 1 DIMETHICONE, MIXT. WITH PANCREATIN/CN
E3 0 --> DIMETHICONE, PEG/CN
E4 1 DIMETHICONE, POLYMER WITH 2-PROPENOIC ACID/CN
E5 1 DIMETHICONE, POLYMER WITH AZIRIDINE, GRAFT/CN

(FILE 'CAPLUS' ENTERED AT 15:22:29 ON 04 APR 2002)

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON WATER/CN
L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SODIUM HYALURONATE"/CN

L3 686 SEA FILE=CAPLUS ABB=ON PLU=ON (L1 OR WATER OR H2O) AND
(L2 OR (NA OR SODIUM) (W)HYALURONATE)
L7 3 SEA FILE=REGISTRY ABB=ON PLU=ON "BUTYLENE GLYCOL"/CN
L8 113 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND (L7 OR BUTYLENE
GLYCOL)
L10 156 SEA FILE=CAPLUS ABB=ON PLU=ON (DIMETHICONE OR DI
METHICONE) (S) (PEG8 OR PEG OR (POLYETHYLENE OR POLY
ETHYLENE) (W)GLYCOL)
L11 0 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND L10

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH,
JICST-EPLUS, JAPIO' ENTERED AT 15:24:38 ON 04 APR 2002)

L12 1 S L11
L13 1 S L12 NOT L5

L13 ANSWER 1 OF 1 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
ACCESSION NUMBER: 2000-256137 [22] WPIDS

DOC. NO. CPI: C2000-078103

TITLE: Solid formulation for improving bioavailability of
poorly water-soluble drugs comprises the
drug in an oil and/or fatty acid dispersed in a
water-soluble polyol matrix.

DERWENT CLASS: A96 B05 B07

INVENTOR(S): LEE, B J

PATENT ASSIGNEE(S): (WONJ-N) WON JIN BIOPHARMA CO LTD

COUNTRY COUNT: 24

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
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WO 2000000179	A1	20000106	(200022)*	EN	67
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RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU CA CN JP US

AU 9946556	A	20000117	(200026)		
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KR 2000006503	A	20000125	(200063)		
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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000000179	A1	WO 1999-KR341	19990628
AU 9946556	A	AU 1999-46556	19990628
KR 2000006503	A	KR 1999-24437	19990626

FILING DETAILS:

PATENT NO	KIND	PATENT NO
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Searcher : Shears . 308-4994

10/038830

AU 9946556 A Based on WO 200000179

PRIORITY APPLN. INFO: KR 1999-24437 19990626; KR 1998-24563
19980627

AN 2000-256137 [22] WPIDS

AB WO 200000179 A UPAB: 20000508

NOVELTY - A solid dispersed formulation for poorly **water**-soluble drugs is made by dispersing the drug in an oil and/or fatty acid and mixing the dispersion with a **water**-soluble polyol matrix and drying the mixture.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for medicines prepared using the novel solid.

USE - The composition is useful for enhancing the bioavailability of poorly **water**-soluble drugs.

ADVANTAGE - The novel composition provides improved solubility in the gastrointestinal tract giving a great increase in bioavailability. Formulation does not require the use of organic solvents.

Dwg.0/5

FILE 'REGISTRY' ENTERED AT 15:26:15 ON 04 APR 2002
L14 2 S (ALLANTOIN OR PANTHENOL)/CN

FILE 'CAPLUS' ENTERED AT 15:26:19 ON 04 APR 2002
L15 6 S L8 AND (L14 OR ALLANTOIN OR PANTHENOL)
L16 6 S L15 NOT L4

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:873184 CAPLUS

DOCUMENT NUMBER: 136:10924

TITLE: Massage cosmetics containing polymers and oils

INVENTOR(S): Hata, Minako

PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001335460	A2	20011204	JP 2000-160489	20000530

AB This invention relates to cosmetic compns. for massaging to provide skin moisturizing and emollient effects. The compns. comprise (1) acrylamide-2-acrylamido-2-methylpropanesulfonic-acid copolymer (I) 0.03-0.5 %, (2) liq. oils 0.1-50 %, (3) locust bean gum 0.01-0.5 %, (4) xanthan gum 0.01-0.5 %, and (5) nonionic surfactants 0.1-10 %, where the wt. ratio of (3)/(4) being 1/10 - 10/1. A massage cream contained **Na hyaluronate** aq. soln. 5, 1,3-**butylene glycol** 10, glycerin 5, ethanol 5, locust bean gum 0.1, xanthan gum 0.1, Carbopol 940 0.05, NaOH 0.02, I (40 %) 0.75, D-**panthenol** 1, seaweed ext. 1, caffeine 0.1, polyoxyethylene sorbitan monooleate 1, sorbitan sesquioleate 1, paraffin oils 10, perfumes 1, and distd. **water** q.s. to 100 %.

10/038830

L16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:371547 CAPLUS
DOCUMENT NUMBER: 134:357402
TITLE: Cosmetics containing collagens and **water**
-soluble polymers
INVENTOR(S): Ozaki, Tadaaki; Matsuda, Norio; Yoshioka,
Takashi; Kado, Takayuki; Sugisaki, Mitsuhiko;
Oka, Hiroko
PATENT ASSIGNEE(S): Iwase Cosfa Co., Ltd., Japan; Nippon Rikagaku
Yakuhin Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2001139448	A2	20010522	JP 1999-322995	19991112
AB	This invention relates to transparent cosmetic compns. comprising a stable combination of water -sol. collagen type I and water -sol. polymers in a wide range of pH. A moisturizing pack contained collagen type I 10, montmorillonite 3, Na CMC 0.2, hydroxyethyl cellulose 0.1, polyoxyethylene sorbitan monooleate 0.5, 1,3- butylene glycol 6, citric acid 0.2, talc 20, kaolin 7, titania 5, Na hyaluronate 0.005, allantoin 0.1, Na citrate 1.5, lavender ext. 0.1, methylparaben q.s., and distd. water to 100 %.				
IT	9067-32-7, Sodium hyaluronate RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (cosmetics contg. collagens and water -sol. polymers)				

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:14983 CAPLUS
DOCUMENT NUMBER: 132:83650
TITLE: Solid dispersed preparation of poorly
water-soluble drug containing oil, fatty
acid or mixtures thereof
INVENTOR(S): Lee, Beom Jin
PATENT ASSIGNEE(S): Won Jin Biopharma Co., Ltd., S. Korea
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	WO 2000000179	A1	20000106	WO 1999-KR341	19990628
	W: AU, CA, CN, JP, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	KR 2000006503	A	20000125	KR 1999-24437	19990626
	AU 9946556	A1	20000117	AU 1999-46556	19990628
PRIORITY APPLN. INFO.:	KR 1998-24563 A 19980627				

Searcher : Shears 308-4994

10/038830

KR 1999-24437 A 19990626
WO 1999-KR341 W 19990628

AB Disclosed is a solid dispersed prepn. for poorly **water**-sol. drugs, which is prepd. by dissolving or dispersing the poorly **water**-sol. drugs in an oil, a fatty acid or a mixt. thereof, mixing the soln. or dispersion in a **water**-sol. polyol matrix and drying the mixt. The solid dispersed prepn. can be formulated into a power formulation or a granule formulation. The solid dispersed prepn. is improved in the soly. of poorly **water**-sol. drugs in the gastro-intestinal tract, resulting in a great increase in the bioavailability of the drugs. In addn., the solid dispersed prepn. gives the pharmaceutical solns. to the problems that the conventional semi-solid or liq. prepn. possess, enabling medicinally effective, poorly **water**-sol. compds. to be formulated, molded and processed, quickly and in an economically favorable manner without use of any org. solvent. Examples are given for emulsions contg. mixts. of waxes, oils, and aq. phase.

IT 81-13-0, Panthenol 107-88-0,
1,3-Butanediol 9067-32-7, Sodium
hyaluronate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(solid dispersed prepn. of poorly **water**-sol. drug
contg. oils and fatty acid or mixts.)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L16 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:527045 CAPLUS

DOCUMENT NUMBER: 129:166083

TITLE: Sunscreen compositions containing a UV-A
dibenzoylmethane derivative and an alkyl
salicylate stabilizer/solubilizer

INVENTOR(S): Bonda, Craig A.; Hopper, Steven P.

PATENT ASSIGNEE(S): The C. P. Hall Company, USA

SOURCE: U.S., 8 pp. Cont.-in-part of U.S. Ser. No.
752,585.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5788954	A	19980804	US 1997-967121	19971112
US 5783173	A	19980721	US 1996-752585	19961121
AU 9745324	A1	19980528	AU 1997-45324	19971120
AU 728369	B2	20010111		
US 5849273	A	19981215	US 1997-984765	19971204
US 6350894	B1	20020226	US 2000-523336	20000310

PRIORITY APPLN. INFO.: US 1996-752585 A2 19961121
US 1997-967121 A2 19971112
US 1998-7503 A1 19980115

OTHER SOURCE(S): MARPAT 129:166083

AB A sunscreen compn. contg. a UV-A dibenzoylmethane deriv., such as
4-(1,1-dimethylethyl)-4'-methoxydibenzoylmethane (PARSOL 1789), and

an alkyl salicylate stabilizer/solubilizer for the dibenzoylmethane deriv. is disclosed. A sunscreen contained octyl methoxycinnamate 1-10, butyloctyl salicylate 1-15, hexyldecyl benzoate & butyloctyl benzoate 0-10, avobenzene 0.5-5, polyvinylpyrrolidone eicosene copolymer 0-2, dimethicone copolyol 0-2, tocopheryl acetate 0-2, retinyl palmitate 0-2, bisabolol 0-2, sorbitan oleate 0-5, acrylate/C10-30 alkyl acrylate crosspolymer 0.1-5, silica 0-5, **water** 50-80, xanthan gum 0-2, cetyl hydroxyethyl cellulose 0-2, glycerin 0-10, **butylene glycol** 0-5, phenylethanol, methylparaben, ethylparaben, propylparaben, and butylparaben 0-5, **panthenol** 0-5, triethanolamine 0-1, preservative 0-1, green tea ext. 0-2, biol. ext. selected 0-5 from horsetail ext., myrrh ext., sunflower seed ext., wheat germ ext., and mixts. thereof 0-5, **sodium hyaluronate** 0-1, and polyacrylamide 0-2%.

IT **81-13-0, Panthenol**

RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)

(sunscreen compns. contg. UV-A dibenzoylmethane deriv. and alkyl salicylate stabilizer/solubilizer)

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:180944 CAPLUS

DOCUMENT NUMBER: 116:180944

TITLE: Topical preparations containing resorcin glycosides

INVENTOR(S): Hamazaki, Taihei; Matsugami, Michio; Takenochi, Masanori; Utsugi, Koji; Nakano, Hiroyuki

PATENT ASSIGNEE(S): Pola Chemical Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04001116	A2	19920106	JP 1990-99919	19900416
JP 2860902	B2	19990224		

OTHER SOURCE(S): MARPAT 116:180944

AB Topical preps., which inhibit melanin formation, contain m-ROC6H4OH (R = pentosyl, hexosyl, amino sugar residue, uronic acid residue, etc.). Vaseline 5.0, liq. paraffin 15.0, cetanol 5.0, glycerin monostearate 2.0, polyoxyethylene sorbitan monostearate 2.0, Bu p-hydroxybenzoate 0.2, perfumes 0.2, 1,3-**butylene glycol** 10.0, di-Na edetate 0.1, H₂O 57.5, and m-hydroxyphenyl-.beta.-D-glycoside (I) 3.0 wt. parts were mixed to give a skin cream, which showed skin-lightening effect and wound healing promotion. I is nonirritating.

IT **97-59-6, Allantoin 9067-32-7,**

Sodium hyaluronate

RL: BIOL (Biological study)

(skin-lightening cosmetics contg. resorcin glycosides and)

L16 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:636757 CAPLUS

DOCUMENT NUMBER: 109:236757

10/038830

TITLE: p-Hydroxybenzoate ester-free cosmetics
containing 1,3-butylene glycol
, surfactants, and organic acids
INVENTOR(S): Fujii, Masashi; Ito, Minoru
PATENT ASSIGNEE(S): Noevir Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 63188610	A2	19880804	JP 1987-21540	19870130
AB	The title cosmetics, which are not irritating to the skin and have good bactericidal activities, contain 3-20% 1,3-butylene glycol (I) and .gtoreq.1 compd. chosen from surfactants (inorg.-org. balance 1.20-2.00) and org. acids. A cosmetic comprising glycerin 3.00, I 2.00, allantoin 0.10, Na pyrrolidonecarboxylate 0.10, Na hyaluronate 0.10, lactic acid (II) 0.10, flavoring material 0.10, and 94.45% H2O showed no irritation to the skin and complete control for Escherichia coli, Pseudomonas aeruginosa, P. cepacia, Staphylococcus aureus, but a control contg. Me p-hydroxybenzoate instead of II produced skin irritation.				
IT	107-88-0, 1,3-Butylene glycol RL: BIOL (Biological study) (cosmetics contg. surfactant and org. acid and)				
	(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO' ENTERED AT 15:27:17 ON 04 APR 2002)				
L17	1 S L15				
L18	0 S L17 NOT (L5 OR L12)				

=> fil hom
FILE 'HOME' ENTERED AT 15:34:16 ON 04 APR 2002